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SOURCE Elektricheskiye Stantsii, No 7, 1950, p 64.NEW BOOKS ON POWER, JULY 1950

1. Thermal Design of a Boiler Unit (Teplovoy raschet kotloagregata), T. Kh. Margulova, Moscow/Leningrad, Gosenergoizdat, 1949, 143 pp, R (rubles) 6.00.

Includes fuels; calculation of the quantities and heat content of combustion products for a boiler unit at rated load; thermal balance of a boiler unit in the design stages; structural design of a furnace; basic principles of the structural design of convectional heating surfaces; and checking the thermal design of boiler units. The book is based on recent work of TsKTI (Central Committee of the Thermotechnical Institute), VTI (All-Union Thermotechnical Institute), and MEI (Moscow Power Engineering Institute).

2. Bookkeeping Accounts and the Calculation of Electric and Thermal Energy in Electric Power Stations (Bukhgalterskiy balans i kal'kulyatsiya elektro-i teploenergii na elektrostantsiyakh), F. A. Moskovskiy, Moscow/Leningrad, Gosenergoizdat, 1949, 151 pp, R 7.80.

Describes elementary principles of bookkeeping, the structure and composition of accounting in electric power stations, and the calculation of electric and steam power. Gives meaning of primary documentation, duties of the director in the accounts organization responsibilities for condition of accounts and their timely compilation.

3. Methods of Hydroelectric Power Calculation (Metodika vodnoenergeticheskikh raschetov), S. N. Nikitin, Moscow/Leningrad, Gosenergoizdat, 1949, 238 pp, R 12.00.

Describes methods of calculating hydroelectric power which are suitable for determining the power indices required to standardize operating conditions in hydroelectric power stations. Indicates methods of controlling river flow by reservoirs for hydroelectric power purposes.

4. Pneumatic Fuel Pulverization for Combustion in Low and Medium Power Boilers (Pnevmaticheskii razmol topliva dlya szhiganiya pod kotlami maloy i sredney moshchnosti), M. M. Peshkov, Moscow/Leningrad, Gosenergoizdat, 1947, 88 pp, R 5.00.

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Describes principles of operation, construction and use of foreign-made pneumatic grinders and their construction and testing in the USSR. Gives basic design of a steam pneumatic grinder, and compressed air pneumatic grinders, Types Auger and Pushka.

5. Electric Machines (Elektricheskiye mashiny), L. M. Piotrovskiy, 1949, 528 pp, R 33.50.

Describes dc machines, transformers, synchronous machines, and induction machines with and without collector rings. Examines problems of electric power transmission and distribution in relation to electric machines.

6. Testing Electric Machines, Part I (Ispytaniye elektricheskikh mashin, ch 1), L. M. Piotrovskiy and Ye. A. Pal', Moscow/Leningrad, Gosenergoizdat, 1949, 380 pp, R 14.00.

Describes problems of testing electric dc machines, testing methods and their specific purpose.

7. Capacitors for Increasing the Power Factor (Kondensatornyye ustanovki dlya povysheniya koeffitsienta moshchnosti), B. A. Polyakov, Moscow/Leningrad, Gosenergoizdat, 1949, 176 pp, R 10.00.

Gives construction of capacitors for increasing the power factor, and the electrical processes occurring within them. Examines general problems of power factor correction and corresponding installations. The book is designed for use by engineers and technicians working on the design, assembly, and operation of power transmission and distribution equipment.

8. Vibration of Units in Electric Power Stations and the Balancing of Rotors (Vibratsiya agregatov elektrostantsiy i balansirovka rotorov), V. A. Samoylov, Moscow/Leningrad, Gosenergoizdat, 1949, 160 pp, R 6.50.

Describes problem of eliminating abnormal vibration in turbogenerators, pumps, ventilators, and electric motors. Gives instructions for static and dynamic balancing of rotors under industrial conditions in electric power stations.

9. Elements of Automatic and Telemechanical Equipment (Elementi avtomaticheskoy i telemekhanicheskoy apparatury), B. S. Sotskov, Moscow/Leningrad, Gosenergoizdat, 1950, 660 pp, R 33.00.

Gives systematic description of layout, basic theory, and design of main elements in automatic and telemechanical equipment. Describes relays and transmitting elements, and transmitting and activating elements of automatic and telemechanical devices.

10. Turbine Equipment in Hydroelectric Power Stations (Turbinnoye oborudovaniye gidroelektrostantsiy), B. S. Sotskov, Moscow/Leningrad, Gosenergoizdat, 1949, 360 pp, R 40.00.

Written as a reference book containing up-to-date material on turbine equipment required in planning hydroelectric power stations. Describes main hydroturbine equipment, turbine regulator system, auxiliary machinery, crane equipment, and data on turbine operation.

11. Auxiliary Machinery in Machine Shops of Steam-Electric Power Stations (Vspomogatel'noye oborudovaniye mashinnykh tsekhov teplovykh elektricheskikh stantsiy), I. F. Shapkin, Moscow/Leningrad, Gosenergoizdat, 1949, 223 pp, R 9.00.

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Contains information on hydrotechnology, evaporators, central heating units, deaerating and auxiliary machinery, including operational details, elimination of precipitation, repair work, safety techniques and waste prevention. Written as a handbook for personnel servicing auxiliary machinery in steam-electric power stations.

12. Boilers (Kotel'nyye ustanovki), S. N. Shorin, Moscow/Leningrad, Gosenergoizdat, 1950, 173 pp, R 12.00.

Contains basic information on thermodynamics of gases, steam and its properties, combustion and characteristics of fuels, boiler units, preparation of coal dust and its combustion, fire grate furnaces, heat control in a boiler, and operation of boilers. Written as a textbook for medium grade technicians.

13. Operation of Cables and Cable Networks (Eksplotatsiya kabeley i kabel'nykh setey), S. N. Shorin, Moscow/Leningrad, Gosenergoizdat, 1949, 384 pp, R 19.00.

Contains 30 articles by representatives of the cable network system of the Ministry of Power Stations, the subways, and a number of large plants. Describes testing of cables, cable equipment, and accessories for subterranean and submarine cable lines. Articles are summaries of reports, read at the scientific and technical session, on experience in operating cables and cable networks gained by the Technical Division of the Ministry of Power Stations and VNITOE (All-Union Scientific and Technical Society of Power Engineering) in 1948.

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